BRUHAT BANGALORE MAHANAGARA PALIKE

BYATARAYANA PURA DIVISION

Name of Work: Construction of RCC Drains and RCC Culverts at Right Side Cross Roads of 1st Main Road Kuvempu Nagara in Ward No.05

ESTIMATE COST :78.00 Lakhs

Executive Engineer,
BYATARAYANAPURA DIVISION,

BRUHATH BENGALORE MAHANAGARA PALIKE

Name of work:Construction of RCC Drains and RCC Culverts at Right Side Cross Roads of 1st Main Road Kuvempu Nagara in Ward No.05

Est .Cost Rs.78.00 Lakhs

Sl. No		Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
1	KSRRB 300-3. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. **(Page No. 143/ Item No. 19.1/ PWD SR 2018-19)**								
	For RCC Drain								
	Kuvempunagar								
	Cross Road 1		2	80.00	1.10	1.00	176.00		
	Cross Road 2		2	65.00	1.10	1.00	143.00		
	Cross Road 3		2	64.00	1.10	1.00	140.80		
	Cross Road 4		2	81.00	1.10	1.00	178.20		
	Cross Road 5		2	93.00	1.10	1.00	204.60		
	Cross Road 6		2	18.00	1.10	1.00	39.60		
	Cross Road 7		2	15.00	1.10	1.00	33.00		
	For RCC Culvert								
	Cross Road 2		2	6.50	1.70	1.00	22.10		
	Cross Road 3		1	6.00	1.70	1.00	10.20		
	Cross Road 6		1	5.60	1.50	1.00	8.40		
		Cum					**955.90**	**207.60**	**198444.84**
	Basic Rate	130.00							
	Loading and unloading charges	57.00							
	lead for earth 5 km	12.80							
	Area Weightage 6%	7.80							
	Grand Total	**207.60**							
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. **(P.No-222,I No-27.18 pwd 2018-19)**								
	For RCC Drain								
	Cross Road 1		2	80.00	1.10	0.15	26.40		
	Cross Road 2		2	65.00	1.10	0.15	21.45		
	Cross Road 3		2	64.00	1.10	0.15	21.12		
	Cross Road 4		2	81.00	1.10	0.15	26.73		
	Cross Road 5		2	93.00	1.10	0.15	30.69		
	Cross Road 6		2	18.00	1.10	0.15	5.94		
	Cross Road 7		2	15.00	1.10	0.15	4.95		
	For RCC Culvert								
	Cross Road 2		2	6.50	1.70	0.15	3.32		
	Cross Road 3		1	6.00	1.70	0.15	1.53		
	Cross Road 6		1	5.60	1.50	0.15	1.26		
		Cum					**143.39**	**5509.33**	**789954.81**
	Basic Rate	5115.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1079.39	Note:- (220*~~490.63~~ 245.31/100)=1079.39						
	Add Cement cost as per Issue rate	1161.86	Note:- (220*264.06/50)=1161.86						
	Sub Total	**5197.48**							
	Area Weightage 6%	311.85							
	Grand Total	**5509.33**							
3	Providing and laying plain/reinforced cement concrete for side drains **using M20 nominal mix** concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271 pwd 2018-19)								
	For Bottom Raft								
	For RCC Drain								
	Kuvempunagar								
	Cross Road 1		2	80.00	0.90	0.15	21.60		
	Cross Road 2		2	65.00	0.90	0.15	17.55		
	Cross Road 3		2	64.00	0.90	0.15	17.28		
	Cross Road 4		2	81.00	0.90	0.15	21.87		
	Cross Road 5		2	93.00	0.90	0.15	25.11		
	Cross Road 6		2	18.00	0.90	0.15	4.86		
	Cross Road 7		2	15.00	0.90	0.15	4.05		

Sl. No		Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
	For RCC Culvert								
	Cross Road 2		2	6.50	1.50	0.15	2.93		
	Cross Road 3		1	6.00	1.50	0.15	1.35		
	Cross Road 6		1	5.60	1.20	0.15	1.01		
	For Wall								
	For RCC Drain								
	Kuvempunagar								
	Cross Road 1		4	80.00	0.15	0.75	36.00		
	Cross Road 2		4	65.00	0.15	0.75	29.25		
	Cross Road 3		4	64.00	0.15	0.75	28.80		
	Cross Road 4		4	81.00	0.15	0.75	36.45		
	Cross Road 5		4	93.00	0.15	0.75	41.85		
	Cross Road 6		4	18.00	0.15	0.75	8.10		
	Cross Road 7		4	15.00	0.15	0.75	6.75		
	For RCC Culvert								
	Cross Road 2		4	6.50	0.23	0.75	4.49		
	Cross Road 3		2	6.00	0.23	0.75	2.07		
	Cross Road 6		2	5.60	0.23	0.75	1.93		
	For Ramp								
	Cross Road 2		4	6.50	0.70	0.15	2.73		
	Cross Road 3		2	6.00	0.55	0.15	0.99		
		Cum					**317.01**	**7189.42**	**2279117.46**
	Basic Rate	6670.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1471.89	Note:- (300*~~490.63/100~~ 245.3)=1471.89						
	Add Cement cost as per Issue rate	1584.36	Note:- (300*264.06/50)=1584.36						
	Sub Total	**6782.47**							
	Area Weightage 6%	406.95							
	Grand Total	**7189.42**							
4	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3 (I No-28.8.2,P No-229 PWD SR 2018-19)								
	Consider 65kg/Cum for drain		1	303.24	65.00		19710.60		
	Consider 90kg/Cum for Culvert		1	13.77	90.00		1239.30		
		Tonne					**20.95**	**72326.98**	**1515243.00**
	Basic Rate	68233.00							
	Area Weightage 6%	4093.98							
	Grand Total	**72326.98**							
5	Providing and fixing **Precast RCC cover slabs of 100 mm thick for drain** in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges,curing and concrtee finished surface on both sides etc,and complete as per the directions of Enginner in charges.(Data Rate)								
	For RCC Drain								
	Kuvempunagar								
	Cross Road 1		2	80.00	0.90		144.00		
	Cross Road 2		2	65.00	0.90		117.00		
	Cross Road 3		2	64.00	0.90		115.20		
	Cross Road 4		2	81.00	0.90		145.80		
	Cross Road 5		2	93.00	0.90		167.40		
	Cross Road 6		2	18.00	0.90		32.40		
	Cross Road 7		2	15.00	0.90		27.00		
		Sqm					**748.80**	**2337.00**	**1749945.60**
	Data Rate	**2337.00**							
6	Providing and fixing **Precast RCC slab of 250mm thick for Culverts** made of Plain/Reinforced Cement Concrete design mix M25 with OPC@340kgs,with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates@0.47cum,with superplasticizer@3lts confirming to 189103-1999 Reaffirmed-2008,Open Foundation complete as per Drawing and Technical Specification including cost of all materials, labour,HOM curing,form works,scaffolding and centering complete as per specifications and pointing for ljoints 1:3 cement mortar including form work,lift charges,curing and concrete finished surfaces on both sides etc,complete and as per the directions of Engineer in-Charge. **(Data Rate)**								
	For Culverts								
	Cross Road 2		2	6.50	1.50		19.50		
	Cross Road 3		1	6.00	1.50		9.00		
	Cross Road 6		1	5.60	1.20		6.72		
		Sqm					**35.22**	**5418.00**	**190821.96**
	Data Rate	**5418.00**							
								Total Constrution cost	**6723527.67**

Sl. No		Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
								GST Charges 12%	806823.32
								KRIDL Charges 4%	268941.11
								Sub Total	7799292.09
								Miscellaneous & Rounding Off	707.91
								Grand Total	7800000.00
Rupees Seventy Eight Lakh(s) Only									

Certificate:-

1) This Work Comes Within BBMP Limits.
2) Certified that personaly Inspected the Work Spot.
3) Certified that the Estimate is Prepared Based on CSR of PWD Bangalore Circle 2018-19
4) Estimate is Prepared Making Use of essential itemof work as per site conditions in safest way of Execution in most economical way
5) This work is not include in any other program of work.

Assistant Engineer
Ward No.05

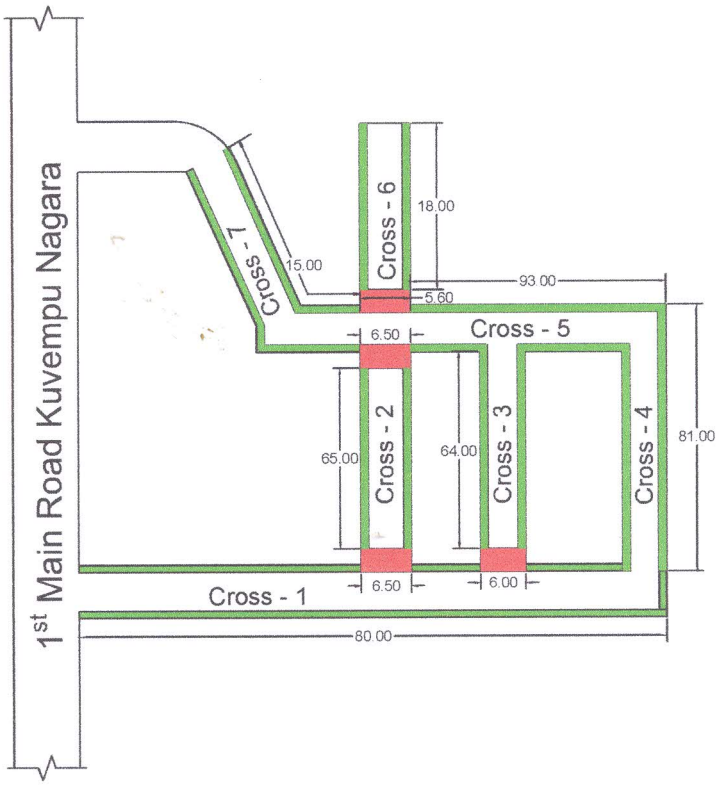
Asst. Executive Engineer,
Byatarayanapura Sub division,

Executive Engineer,
Byatarayanapura Division

ADMINISTRATIVE APPROVAL
Accorded For Rs. 78.00 Lakhs only
Head of A/c. P3736
Div. Ref. No. 111 / 19-20 Date 16-3-2020
AE 16/03
EE(BTP) 16/03

... sanctioned for Rs. 78,00,000/-
... SEVENTY LAKH ONLY
Under P3736
Job Code No. 005-20-000083
Registered as SE(V)/TC/ 50 / 19-20
to conditions contained in enclosed ...
No. 50 / 19-20 Dated: 16/3/2020
AE/JE TA SE

Name of Work :- Construction of RCC Drains and RCC Culverts at Right Side Cross Roads of 1st Main Road Kuvempu Nagara in Ward No.05



Index:-

RCC Drain

RCC Culvert

Assistant Engineer
Ward No.05

Assistant Executive Engineer
Byatarayanapura Sub division,

All Dimensions are in Meters